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LASER LIGHT SHOW NOTIFICATION
HFZ 312, ROOM 1352
DATE: 03/10/99
Application for New Variance

Mr. Manuel Karos Food and Drug Administration Center for Devices and Radiological Health 1390 Piccard Drive, Rockville, MD 20857

Tel: (301) 594-4646 Fax: (301) 594-4672

Dear Mr. Karos,

Attached please find the original and 4 copies of an application for a new variance for our customer, New Wave Entertainment. There club was scheduled to open in April but has now been pushed back until sometime in May. I did fax you, On January 29, 1999, a notice stating that.

I will keep you informed as to when the club will open. Our hope is that the inspection can happen when we are out there to install it so if needed we can make any corrections to guarantee their variance approval.

Any questions you may have regarding this matter, please feel free to contact me.

Thank you.

Sincerely.

Christine Jenkin Vice President

cc: John Lamb, Arizona Radiation Regulatory Agency



NAR 22 1999
RECEIVED

20209 Northeast 15th Ct. • Miami, Florida 33179 • 305,690,6885 • Fax 305,690 6881



DÉPARATMÉNT OF MEALTH AND HUMAN SERVICES PUBLIC MEALTH SERVICE FOOD AND DRUG ADMINISTRATION

APPLICATION FOR A VARIANCE FROM 21 CFR 1040.11(c) FOR A LASER LIGHT SHOW, DISPLAY, OR DEVICE

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1 4000	com theer	August 11	1444

DOCKET NUMBER

food and drug administration	LAS	OR DEVICE	SPLAT,	
NOTE: No laser light show, projection system, or application in accordance with 21 CFR 101		ompliance with 21 CFR 10	tolitics in deviau	or use without the approval of this
	INST	RUCTIONS		
4. Check all applicable noves and type or print the re-	યુવલ્તીઓ			gemen Braich (HLA-305) Long and
information. 2. Submit an original and four (4) copies		4 Enter Decement Name		hers Line Rockville, MD 20057
1. NAME OF COMPANY				<u></u>
New Wave Entertainmen	1 1			
2 ADDRESS OF COMPANY (Foliate /IF CODE) (IF to but		Vices admit		
4445 N. Buckboard Tra				
3 NAME AND TITLE OF RESPONSIBLE PERSON		EPHONE NO (Include afour contr)		S DATE OF SUBMISSION
Shadrod Yari, President	60.	2-648-2828		2/1/99
6. The applicant requests the variance to be in effect for a per- tangential, the Assess will appears a surface test only the court	riod of years from th	e date of 15500	sport of the apple atom	
7	PRODUCT DES	CRIPTION AND USE		
& LIST NAME AND/OR MODEL NUMBER(S) FOR THE LAS	ER LIGHT SHOW(S) AND PRI	DJECTOR(5)		
LaserPro projector ABE • PRODUCT FOR WHICH A VARIANCE IS REQUESTED		I. PRODUCT IS INTENDE	D TO BE USED AT AM	T ONE LOCATION
A LASER DISPLAY DEVICE		MORE THAN 15 C		, , , , , , , , , , , , , , , , , , , ,
A PROJECTOR FOR A LASER LIGHT SHOW		MORE THAN 5 BL	T NOT MORE THAN	15 DATS
A LASER LIGHT SHOW		LESS THAN S DA	T 5	
OTHER (Specifi)		- TOUR IS INTENDED TO RIM FOR		
- PROJECTORS ARE INTENDED FOR SALE, LEASE	OR LOAN TO OTHER	g TOUR IS INTENDED TO RUN FOR		
LASER LIGHT SHOW PRODUCERS		14 MONTHS		
d PRODUCT IS INTENDED FOR USE IN A		LESS THAN 1 MONTH		
PLANETARIUM OR OTHER DOME PROJECTION 51	RUCTURE	NOT APPLICABLE (MILL 2 (MILL)		
☐ THEATER		OTHER (Nettri)		
STORE DISPLATS		o PRODUCT UTILIZES TO	F FO'LOWING LASE	R FFFFCTS
TRAPE SHOW OR CONVENTION		n PRODUCT UTILIZES THE FO:LOWING LASER EFFECTS FRONT SCREEN PROJECTIONS		
DISCOTHEQUE OR NIGHT CLUB		REAR SCREEN PROJECTIONS		
PAVILION		MOLOGRAPHIC DISPLATS		
INDOOR ARENA		MULTIPLE REFLECTIONIDIFFRACTION EFFECTS		
OUTDOOR ARENA		AUDIENCE SCANNING (150 metales southers are accepted uncertailled areas)		
MUSEUM		REFLECTIONS FROM STATIONARY MIRRORS OR MIRRORED SURFACES		
OUTDOOR UNENCLOSED AREA		(Reno. Materia) Stationary irradiation of rotating Mirror Balls, ETC.		
OTHER (Varidit		SCANNING IRRADIATION OF ROTATING MIRROR BALLS, ETC.		
c. PRODUCT IS INTENDED TO BE USED		FIBER OPTIC PROJECTIONS		
AT ONLY ONE WIND LOCATION		FOG SMOKE OR OTHER SCATTERING ENHANCEMENT EFFECTS		
AT A VARIETY OF Immy LOCATIONS		OTHER LYNNING		
OTHER (VANO)				
8.	LASER RADI	ATION LEVELS		
LASER MEDIUM (A) He-Ne, me.	WAVE LE	GTHS (nm)		PEAK POWER (II - III I
Argon/Krypton mixed	488-632	3.5 watts		.5 watts
9 IF ANY LASER RADIATION IS PULSED OR SCANNED, GIVE	THE PULSE DURATION AND	RATE AND SCANNING FREQU	ENCT AND AMPLITU	DE
Scanning Frequency 0-35K,				
REASON FOR REQUESTING VARIANCE				
COMPLIANCE WITH THE LIMITS OF 21 CFR 1940 11(c) POWER TO THE EXTENT THAT THE DESIRED EFFECT!	WOULD RESTRICT THE INTI S WOULD NOT BE SUFFICIE	ENDED USE OF THE PRODUCT	BECAUSE COMPLIA	NCE WOULD LIMIT THE OUTPUT
THER OR ADDITIONAL EXPLANATION (TO		. =-		

11	2	IT AC	R IN WHICH IT IS PROPOSED TO DEVIATE FROM THE REQUIREMENTS OF THE APPLICABLE STANDARD IS PROPOSED TO DEVIATE FROM THE PROVISIONS OF 21 CFR 1040 11(c) IN THAT THE ACCESSIBLE EMISSION LEVEL WOULD EXCEED THE CESSIBLE EMISSION LIMITS SPECIFIED IN 21 CFR 1040.11(c). IS PROPOSED TO DEVIATE FROM THE PROVISION OF 21 CFR 1040 11(c) AS FOLLOWS:
12	×	LA EX	TAGES TO BE DERIVED FROM SUCH DEVIATION SER LIGHT SHOWS AND DISPLAYS ARE ACCEPTED POPULAR MEDIA IN ENTERTAINMENT AND THE ARTS. USE OF POWER LEVELS IN CESS OF THE LIMITS IMPOSED BY 21 CFR 1040.11(c) IS NECESSARY TO ACHIEVE THE REQUIRED EFFECTS IN THESE MEDIA. HER OR ADDITIONAL ADVANTAGES (describe and explain)
13.	•		THE ALTERNATE MEANS OF RADIATION PROTECTION TO BE PROVIDED. (Check 85 many bozes as apply. In Item 14 "Remarks," justify any bozes and using additional sheets as necessary. State any other means of radiation protection that will be used.)
	ă.	¥	ALL LASER PRODUCTS, SYSTEMS, SHOWS, AND PROJECTORS WILL BE CERTIFIED TO COMPLY WITH 21 CFR 1040.10 AND THE CONDI- TIONS OF THIS VARIANCE AND WILL BE REPORTED AS REQUIRED BY 21 CFR 1002.10 AND 1002.12 USING THE REPORTING GUIDES PRO- VIDED FOR SUCH PURPOSE THESE ACTIONS WILL BE ACCOMPLISHED PRIOR TO ANY INTRODUCTION INTO COMMERCE.
}	D.	¥	EFFECTS NOT SPECIFICALLY INDICATED IN THIS VARIANCE APPLICATION WILL NOT BE PERFORMED. NO OTHER EFFECTS WILL BE ADDED UNTIL AN AMENDMENT TO THE VARIANCE MAS BEEN OBTAINED AND THE REQUIRED REPORTS OR SUPPLEMENTS, AS APPLICABLE, MAVE BEEN SUBMITTED.
 	c.	K	SCANNING, PROJECTION, OR REFLECTION OF LASER AND COLLATERAL RADIATION (LIGHT SHOW RADIATION) INTO AUDIENCE OR OTHER ACCESSIBLE UNCONTROLLED AREAS WILL NOT BE PERMITTED EXCEPT FOR DIFFUSE REFLECTIONS PRODUCED BY THE ATMOSPHERE, ADDED ATMOSPHERIC SCATTERING MEDIA, AND TARGET SCREENS
	4	X	LASER RADIATION LÉVELS IN EXCESS OF THE LIMITS OF CLASS I WILL NOT BE PERMITTED AT ANY POINT LESS THAN 3.9 METERS ABOVE ANY SURFACE UPON WHICH PERSONS OTHER THAN OPERATORS, PERFORMERS, OR EMPLOYEES ARE PERMITTED TO STAND OR 2.5 METERS BELOW OR IN LATERAL SEPARATION FROM ANY PLACE WHERE SUCH PERSONS ARE PERMITTED TO BE. OPERATORS, PERFORMERS, AND EMPLOYEES WILL NOT BE REQUIRED OR ALLOWED TO VIEW RADIATION ABOVE THE LIMITS OF CLASS I OR BE EXPOSED TO RADIATION ABOVE THE LIMITS SPECIFIED IN 21 CFR 1040.11(c).
	e	X	ANY PRODUCT WHICH RELIES ON SCANNING TO MEET ACCESS, EXPOSURE, OR PRODUCT CLASS LIMITS WILL INCORPORATE A SCANNING SAFEGUARD SYSTEM WHICH DIRECTLY SENSES SCANNER MOTION AND WHICH WILL REACT FAST ENOUGH TO PRECLUDE EXCEEDING THE APPLICABLE LIMIT
	Ţ	X	ALL LASER LIGHT SHOWS SHALL BE UNDER THE DIRECT AND PERSONAL CONTROL OF TRAINED, COMPETENT OPERATOR(S). THE OPERATOR(S) WILL:
		`	(1) IMMEDIATELY TERMINATE THE EMMISSION OF LIGHT SHOW RADIATION IN THE EVENT OF ANY UNSAFE CONDITION;
			(2) BE LOCATED WHERE ALL BEAM PATHS CAN BE DIRECTLY OBSERVED AT ALL TIMES, AND
			(3) BE AN EMPLOYEE OF THE VARIANCE HOLDER WHO WILL BE RESPONSIBLE FOR THE TRAINING AND CONDUCT OF THE OPERATOR.
	g.	X	THE MAXIMUM LASER PROJECTOR OUTPUT POWER WILL NOT EXCEED THE LEVEL REQUIRED TO OBTAIN THE INTENDED EFFECTS
	ħ	R	THE PROJECTION SYSTEM (I.E., THE PROJECTOR AND ALL OTHER COMPONENTS USED TO PRODUCE THE LIGHTING EFFECTS) WILL BE SECURELY MOUNTED OR IMMOBILIZED TO PREVENT UNINTENDED MOVEMENT OR MISALIGNMENT. BEAM LIMITERS WILL BE PROVIDED AS AN INHERENT PART OF THE SYSTEM DESIGN TO PREVENT OVERFILLING OF SCREENS, BEAM STOPS, TARGETS, ETC.
	ı.	X	LASER PROJECTORS WILL NOT BE DELIVERED TO ANY OTHER PARTY UNDER AN AGREEMENT OF SALE, LEASE, OR LOAN UNLESS AND UNTIL THE RECIPIENT DEMONSTRATES THAT THEY HAVE A VARIANCE IN EFFECT AT THE TIME OF DELIVERY THAT PERMITS THEM TO PRODUCE LASER LIGHT SHOWS INCORPORATING SUCH PROJECTOR.
	Į -	X	IN ADDITION TO THE REQUIREMENTS OF 21 CFR 1040.10(n). THE MANUFACTURER OF LASER PROJECTORS/SYSTEMS WILL PROVIDE TO PARTIES WHO PURCHASE, LEASE, OR BORROW THE EQUIPMENT, ADEQUATE USER'S INSTRUCTIONS FOR SAFE INSTALLATION AND OPERATION AND WHICH EXPLAIN THE RESPONSIBILITY OF THE RECIPIENT AS AN INDEPENDENT LIGHT SHOW MANUFACTURER TO SUBMIT THE REQUIRED REPORTS AND APPLY FOR AND OBTAIN A VARIANCE FROM CORM PRIOR TO INTRODUCTION INTO COMMERCE OF ANY LASER LIGHT SHOWS.
	k	^	THE REQUIREMENTS OF 21 CFR 1002.30(2)(1) AND (2) WILL BE ACCOMPLISHED THROUGH THE USE OF WRITTEN PROCEDURES FOR SETUP, ALIGNMENT, TESTING, AND PERFORMANCE OF EACH SHOW THESE PROCEDURES WILL BE IN SUFFICIENT DETAIL TO ENSURE COMPLIANCE WITH 21 CFR 1040.10, THE CONDITIONS OF THIS VARIANCE, AND THE CONTROL OF ACCESS TO RADIATION AREAS USING THE PROCEDURES DESCRIBED IN THE ANSI 2136,1 STANDARD FOR THE SAFE USE OF LASERS (AMERICAN NATIONAL STANDARDS INSTITUTE, 1430 BROADWAY, NEW YORK, NY 10018) OR ANY OTHER EQUIVALENT USER CONSENSUS STANDARD AND, WHERE APPLICABLE, STATE OR LOCAL REQUIREMENTS. LASER RADIATION AREAS WHICH CAN CONTAIN RADIATION LEVELS ABOVE THE LIMITS SPECIFIED IN 21 CFR 1040.11(c), WILL BE CLEARLY IDENTIFIED BY THE POSTING OF WARNING SIGNS AND/OR RESTRICTING ACCESS THROUGH PHYSICAL MEANS (SUCH AS PRESSURE SWITCHES, PHOTOCELLS, BARRIERS, GUARDS, ETC.). THESE REQUIREMENTS APPLY TO TEMPORARY AREAS (SUCH AS DURING SETUP AND ALIGNMENT PROCEDURES) AND TO FINAL OR PERMANENT AREAS THE VARIANCE HOLDER WILL RETAIN THE RECORDS OF THESE PROCEDURES AND THE RESULTS OF ALL TESTS AS REQUIRED BY 21 CFR 1002 31 A COPY OF THE VARIANCE APPLICATION. THE APPROVAL LETTER, CURRENT PROCEDURES, AND RECORDS RELATING TO EACH PARTICULAR SHOW WILL BE WITH THE OPERATOR OR OTHER RESPONSIBLE INDIVIDUAL AND WILL BE MADE AVAILABLE FOR INSPECTION BY FOA AND OTHER RESPONSIBLE AUTHORITIES

- ADVANCE WRITTEN NOTIFICATION WILL BE MADE AS EARLY AS POSSIBLE TO APPROPRIATE F ALL STATE, AND LOCAL AUTHORITIES PROVIDING SHOW ITINERARY WITH DATES AND LOCATIONS CLEARLY AND COMPLETELY IDENTIFIED, AND A BASIC DESCRIPTION OF PROPOSED EFFECTS INCLUDING A STATEMENT OF THE MAXIMUM POWER QUIPUT INTENDED. SUCH NOTIFICATIONS WILL BE MADE, BUT NOT NECESSARILY BE LIMITED, TO:
 - (1) THE CENTER FOR DEVICES AND RADIOLOGICAL HEALTH, OFFICE OF COMPLIANCE (HFZ312), 8757 GEORGIA AVE., SILVER SPRING, MD 20910, PROVIDING THE INITIAL AND CLOSING DATES FOR FIXED INSTALLATIONS AND THE ITINERARY FOR MOBILE SHOWS. IN ADDITION, UNLESS ALL ASPECTS OF EACH SHOW HAVE BEEN REPORTED AND THE ACCESSION NUMBERS CLEARLY REFERENCED, EACH NOTICE WILL INCLUDE DETAILED DESCRIPTIONS OF EACH SHOW AND A LISTING OF ALL EFFECTS TO BE PERFORMED IN SUFFICIENT DETAIL TO CONFIRM COMPLIANCE WITH THE REGULATIONS AND THIS VARIANCE.
 - (2) THE FEDERAL AVIATION ADMINISTRATION (FAA) FOR ANY PROJECTIONS INTO OPEN AIRSPACE AT ANY TIME (I E., INCLUDING SET-UP, ALIGNMENT, REMEARSALS, PERFORMANCES, ETC.). IF THE FAA OBJECTS TO ANY LASER EFFECTS, THE OBJECTIONS WILL BE RESOLVED AND ANY CONDITIONS REQUESTED BY FAA WILL BE ADHERED TO IF THESE CONDITIONS CAN NOT BE MET, THE OBJECTIONABLE EFFECTS WILL BE DELETED FROM THE SHOW.
 - (3) STATE AND LOCAL RADIATION CONTROL OFFICES/AGENCIES FOR ALL SHOWS TO BE PERFORMED WITHIN THEIR JURISDICTIONS, ALL REQUIREMENTS OF STATE AND LOCAL LAW WILL BE SATISFIED AND ANY OBJECTIONS RAISED BY LOCAL AUTHORITIES WILL BE RESOLVED OR THE EFFECTS DELETED, (LISTS OF FEDERAL AND STATE OFFICES ARE AVAILABLE FROM THE CENTER FOR DEVICES AND RADIOLOGICAL HEALTH UPON REQUEST.)

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CERTIFICATION

I CERTIFY that all of the above information and statements are true, complete, and correct to the best of my knowledge and acknowledge that my variance application may be denied or my variance may be revoked if this application is found to be false, misleading, or incorrect in any majorial way. I have submitted and will submit all reports required by 21 CFR 1002.10 and 1002.12 on the laser equipment and show(s). I further understand that I may be required by regulation or by the Director, Center for Devices and Radiological Health, to supply such other information as may be necessary to evaluate and act on this application.

SIGNATURE () 2

16. NAME (Type or Print)

17. TITLE

Shahrod Yari

President